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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,945	10/16/2003	Erik Karrer	0241us320	4598
30560	7590 06/23/2006		EXAMINER	
MAXYGE	N, INC.	DEJONG, ERIC S		
INTELLECTUAL PROPERTY DEPARTMENT 515 GALVESTON DRIVE RED WOOD CITY, CA 94063			ART UNIT	PAPER NUMBER
			1631	
			DATE MAILED: 06/23/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Antinum Commencer	10/686,945	KARRER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Eric S. DeJong	1631				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11/01	/2004					
	action is non-final.					
<u>'</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E						
Disposition of Claims	,					
<u> </u>	s/are pending in the application					
4)⊠ Claim(s) <u>1,2,4-7,10-12,14,28,32,73 and 77-82</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1,2,4-7,10-12,14,28,32,73 and 77-82</u>	are subject to restriction and/or e	lection requirement.				
Application Papers						
	_					
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acce	· · · · · · · · · · · · · · · · · · ·					
Applicant may not request that any objection to the	*	• •				
Replacement drawing sheet(s) including the correcti	· · · · · ·					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau 	s have been received. s have been received in Applicati ity documents have been receive	on No				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate latent Application (PTO-152)				
0.00 to 1.00 t						

DETAILED OFFICE ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1, 2, 4-7, 10, 11, 12 and 14, drawn to a method of modifying an initial antibody, a library of nucleic acids produced by said method, and one or more recombinant cells comprising one or more members of said library, classified in class 435, subclass 4. If this group is elected then the species election requirement summarized below is also required.
- II. Claims 28 and 32, drawn to methods of evolving HIV envelope protein with improved antigenicity and the resultant HIV envelope protein, classified in class 435, subclass 4.
- III. Claim 55, drawn to a method of providing a population of recombinant anti-enterotoxin monoclonal antibody nucleic acids, classified in class 435, subclass 4.
- IV. Claims 73 and 77-81, drawn to a method for modifying the effector function of an antibody, classified in class 435, subclass 4.
- Claim 82, drawn to a method of humanizing an antibody, classified in class 435, subclass 4.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Group I and Groups II-V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the invention of Group I is drawn to nucleic acids that encode an antibody that is suitable for use in the claimed methods Groups III-V. As such, the product as claimed can in materially different processes.

Inventions of Groups II and Groups III-V are directed to related methods. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case the claimed invention of Group II requires the screening of a library of recombinant DNA fragments to identify segments encoding an evolved HIV envelope protein. In contrast, the claimed inventions of Group III-V do not involve a step requiring the screening of a library of recombinant DNA fragments encoding an evolved HIV envelope protein. Therefore the inventions of Group II and Groups II-V have a materially different designs as well as modes of operation.

Inventions of Groups III-V are each directed to related methods. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the

Art Unit: 1631

inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case the claimed methods of providing a population of recombinant antienterotoxin monoclonal antibody nucleic acids (Group III), for modifying the effector function of an antibody (Group IV), and a method of humanizing an antibody (Group V) each have materially different functions and effects.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Species Election Requirement for Group I

This application contains claims directed to the following patentably distinct species:

Species of a first nucleic acid or character string encoding an initial antibody as set forth in claims 1 and 2 encoding antibodies are distinct each from the other. Nucleic acid sequences or character strings that encode distinct antibodies are separately described in literature thus presenting an undue burden of search if searched together. Applicants are to elect a single disclosed antibody of Table 1 or 2, a homologue thereof, or a fragment there, as recited in claim 1. Examination will be restricted to only the elected antibody, homologue, or fragment thereof.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 2, 4-7, 11, and 12 are generic.

Page 5

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric S. DeJong whose telephone number is (571) 272-6099. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (571) 272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/686,945

Art Unit: 1631

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EDJEDJ

JOHN S. BRUSCA, PH.D

PRIMARY FXAMINER

Page 6